



Revised Curriculum for the BSc. Programme in Computer Science October 24 2007

Computer Courses – Compulsory

Course Code	Course Title	Credit Hour	Hours / Week	
			Lecture	Tutorial / Lab
CS211	ICT Fundamentals	5	4	2
CS221	Computer Programming I	5	4	2
CS222	Computer Programming II	5	4	2
CS223	Windows Programming	5	4	2
CS224	Object Oriented Programming	5	4	2
CS262	Introduction to UNIX	3	2	2
CS301	Logic Design	4	4	-
CS302	Computer Organization & Assembly Lang. Programming	5	4	2
CS321	Data Structures & Algorithms Analysis	5	4	2
CS322	Web Design & Development	5	4	2
CS341	Database Management Systems	5	4	2
CS342	Database Programming	4	4	-
CS343	Systems Analysis & Design	4	4	-



CS363	Operating Systems	4	4	-
CS461	Computer Networks	5	4	2
Total		69		

Computer Courses - Electives (24 -25 Cr. Hr.)

Course Code	Course Title	Credit Hour	Hours / Week	
			Lecture	Tutorial / Lab
CS305	Computer Maintenance	4	4	-
CS325	Design of Algorithms	4	4	-
CS326	Advanced Programming	4	4	-
CS327	Program Design Methodology	4	4	-
CS400	Industrial Group Project	4	Group IT Project	
CS415	Focusing Areas in ICT	2	2	-
CS416	Information & Society	3	3	-
CS427	Compiler Design	4	4	-
CS445	Database Administration	3	2	2
CS446	Object Oriented Software Engineering	4	4	-



CS447	Data Mining	4	4	-
CS448	Software Testing	3	3	-
CS465	Network Administration	3	2	2
CS466	Distributed Systems	4	4	-
CS467	Parallel Processing	4	4	-
CS468	Mobile Application	4	4	-
CS485	Information Retrieval	4	4	-
CS486	Computer Systems Security	4	4	-
CS487	Simulation and Modeling	4	4	-
CS488	Artificial Intelligence	4	4	-
CS489	Computer Graphics	4	4	-
CS494	Telecom Management	4	4	-
CS496	Computer Vision & Image Processing	4	4	-
CS497	Geographic Information Systems	5	4	2
CS498	Advanced GIS & Remote Sensing	5	4	2
CS500	Senior Project	6	Supervised Project	

Supportive Courses - Compulsory

Course Code	Course Title	Credit Hour	Hours / Week	
			Lecture	Tutorial / Lab



CC230	Calculus I	4	4	-
CC232	Calculus II	4	4	-
CC233	Fundamental Concepts of Algebra	4	4	-
CC234	Statistics and Probability	4	4	-
CC251	Sophomore English	4	4	-
CC272	Accounting Principles I	4	4	-
CC273	Accounting Principles II	4	4	-
	Total	28		

Supportive Courses - Elective (a minimum of 19 Cr. Hr.)

Course Code	Course Title	Credit Hour	Hours / Week	
			Lecture	Tutorial / Lab
CC335	Numerical Analysis	4	4	-
CC351	Report Writing	4	4	-
CC399	Entrepreneurship	4	4	-
CC431	Linear Mathematical Programming	4	4	-
CC432	Discrete Mathematical Programming	4	4	-
CC474	Principles of Management	4	4	-
CC477	Educational Psychology	4	4	-
CC495	Research methods	4	4	-
CC496	Project Management	4	4	-



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General Studies

Course Code	Course Title	Credit Hour	Hours / Week	
			Lecture	Tutorial / Lab
CC394	Civic Education	4	4	-
CC395	Ethiopian Geography	4	4	-
CC396	Logic and Philosophy	4	4	-
CC397	Introduction to Economics	4	4	-
CC398	Ethiopian History	4	4	-